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**THE AMERICAN ASSOCIATION FOR THE ADVANCE-  
MENT OF SCIENCE.**

BY O. T. MASON.

This democratic, peripatetic association met in Washington, August 17-24. There were seven hundred in attendance, this was quite above the average and very encouraging for Washington, which has the reputation of being excessively hot in August. Among our foreign visitors interested in Anthropology were Mr. Henry Balfour, of Oxford; Professor Hughes, of Cambridge, England, and Mm. Gaudry and Boule, from Paris. In addition to the papers read in the Anthropological section, there were others in the various sections which bore directly on this subject. Indeed, the presidential address of Professor Goodale was a remarkable example of precious gifts which men in other branches of learning may contribute to the science of man. His theme was the possibilities still undeveloped in the vegetable world. As every one of our food-plants and timber-trees and all our forage and textiles were contributions of nature in a wild state, we may look to nature still with hope for other supplies. It is not possible that we can have exhausted her bounty. The speaker urged upon our experiment stations the duty of prosecuting inquiries in this direction instead of leaving the work to private speculation or accident.

Section I, Economic Science and Statistics, is devoted purely to Anthropology, and in many instances in the highest sense. If natural science is the application of instruments of precision to the study of any subject, then many of the papers read in Section I were truly anthropological. A list of these will speak for itself:

The Census counting machine. By Dr. J. S. Billings, U. S. A.

The science and art of government. By Lester F. Ward.

The Southern old fields. By W J McGee.

Agriculture by irrigation. By R. J. Hinton.

Water management. By B. E. Fernow.

State supervision of railway extension. By B. W. Snow.

The code of inheritance. By Richard T. Colburn.

Artesian wells and underground waters in Texas. By R. T. Hill.

Others, of a more speculative character, have no place here.

The vice-presidential address of Section H, was delivered by Professor Joseph Jastrow, of Wisconsin, on the evolution of the argument from analogy. Beginning with savagery, where the most distant and loosely connected phenomena furnish ground for conclusions, it was possible to trace through more refined grades of culture the improvement of the apparatus of argument itself.

The papers read before the section were as follows:

The essentials of a good education, with a new classification of knowledge. By Wm. H. Seaman.

The custom of kava drinking as practiced by the Papuans and Polynesians. By Walter Hough.

A linguistic map of North America. By J. W. Powell.

Jade implements from Mexico and Central America. By Thomas Wilson.

Gold ornaments in the United States National Museum from the United States of Colombia. By Thomas Wilson.

Siouan onomatopes, interjections, and phonetic types. By J. Owen Dorsey.

On a collection of stone pipes from Vermont. By G. H. Perkins.

The importance and methods of the science of comparative religion. By Merwin Marie Snell.

An experiment in human stirpiculture. By Anita Newcomb McGee.

Relics of ancient Mexican civilization. By Zelia Nuttall.

Bow-stretchers. By Edward S. Morse.

Prehistoric bows. By Edward S. Morse.

The Nez Percé country. By Alice C. Fletcher.

Relation of a Loveland, Ohio, implement-bearing terrace to the moraines of the ice-sheet. By Frank Leverett.

Utility of psychical study of child life. By Laura Osborne Talbott.

Origin of the name Chautauqua. By Albert S. Gatschet.

Outline of creation and migration myths. By F. H. Cushing.

An ancient human cranium from Mexico. By F. W. Putnam.

The length of a generation. By C. M. Woodward.

Burial custom of the Hurons. By C. A. Hirschfelder.

The Messiah religion and the ghost dance. By James Mooney.

Study of a dwarf. By Frank Baker.

Stone drills and perforations in stone. By Atreus Wanner.

Evidences of high antiquity of man in America. By Thomas Wilson.

Bone, copper, and slate implements in Vermont. By G. H. Perkins.

Some archæological contraventions. By Gerard Fowke.

Distribution of stone implements in the tide-water province. By W. H. Holmes.

Games of Teton Dakota children. By J. O. Dorsey.

Geographic arrangement of prehistoric objects in the U. S. National Museum. By Thomas Wilson.

Curious forms of chipped implements. By Thomas Wilson.

Inventions of antiquity. By Thomas Wilson.

Study of automatic motion. By Joseph Jastrow.

Race survivals and race mixtures in Great Britain. By W. H. Babcock.

The paper of Professor Seaman is an attempt to arrange the education of youth on the natural relations of the sciences.

## LANGUAGE.

Ancient.  
Modern.  
Elocution.  
Grammar.  
Philology.  
Rhetoric.  
Logic.  
Drawing.  
Painting.  
Music.  
Sculpture.

## MATHEMATICS.

<i>Pure.</i>	<i>Applied.</i>
Arithmetic.	Surveying.
Algebra.	Topography.
Geometry.	Astronomy.
Calculus.	
	Mechanics.

## CHEMISTRY.

<i>Molecular.</i>	<i>Atomic.</i>
Gravitation.	Descriptive.
Heat.	Theoretical.
Light.	
Electricity.	
Magnetism.	

Mineralogy.  
Geology.

## BIOLOGY.

*The Anatomy and Physiology of  
Plants and Animals.*

Fungi.	Protozoa.
Algæ.	Metazoa.
Lichens.	Insects.
Mosses.	Reptiles.
Ferns.	Fishes.
Phenogams.	Birds.
	Mammals.
	History.
	Sociology.
	Psychology.

Mechanics, mineralogy, and geology are "connecting links."

Mr. Hough has collected from various sources the details of kava drinking and the reports of its effects on the system.

Major Powell's communication was an exhibition of a linguistic map of North America, the result of an inquiry extending over twelve years and combining the studies of all who from the first mention of a tribe to the present moment have contributed to the

construction of a map. Civilization has almost entirely swept away the living representatives of this primitive culture, but Major Powell's map will remain the chart of savage occupation of the continent.

Mr. Wilson's brief paper on jade was long enough to stir up the old controversy on the question of its source, but no progress was made in its solution.

Mr. Dorsey gave a brief discussion of a linguistic topic, the full account of which will appear in the publications of the Bureau of Ethnology.

The paper of Mrs. McGee described the experiment of Noyes in the Oneida Community and gave the result. This paper appears in the present number of the magazine.

Mrs. Nuttall sent to the Association an accurate color sketch of an old Mexican feather shield now in the castle of Ambras, in the Tyrol, with a study of this style of work and a discussion of the shield itself.

Professor Morse, in continuation of his studies in primeval archery, discussed some very primitive forms of bows, and also a relic of the Bronze Age, supposed to have been used in stringing or in stretching the bow.

Miss Fletcher offered a map of the Nez Percé country, drawn by an Indian of that nation, and compared it with the best work of our Land Office.

Mr. Cushing read a long and copiously illustrated paper, giving the results of his study in the mythology of the Zuñi Indians during a residence of several years among them. This paper will appear in the publications of the Bureau of Ethnology.

Mr. Mooney's communication was of great interest to the section. After spending two months in Oklahoma and the Indian Territory, dancing the ghost dance with the Indians, he was able in the most graphic manner to reproduce the scene and give a logical account of its motive. It appears that the Indians having failed to rid the land of white men have now appealed to the ghost world and the Messiah to help them.

All of the other papers in the list following Mr. Mooney's were read by title and will appear by abstract in the Proceedings.

This account should not be closed without mention of the Woman's Anthropological Society, some of whose members read excellent papers before the section, and all of them were most assiduous in their attentions to the Association.